What is claimed is:

1. A method for detecting flaws in a disk drive, comprising:
sampling a signal derived from at least a portion of a track on a disk to obtain n samples;

deriving a value from m of said n samples; and comparing said derived value to a threshold value.

- 2. The method of Claim 1, further comprising generating a signal if said value derived from said m samples is determined to be unacceptable.
- 3. The method of Claim 1, further comprising generating a signal if said value derived from said m samples is less than said threshold value.
- 4. The method of Claim 1, further comprising generating a signal if said value derived from said m samples is not greater than said threshold value.
- 5. The method of Claim 1, wherein said at least a portion of a track is encoded using a predetermined pattern, and wherein said m samples are taken at times corresponding to expected peak values in said sampled signal.
- 6. The method of Claim 1, wherein each of said m samples has a magnitude, and wherein said step of deriving a value from m of said n samples comprises calculating a

sum comprising said magnitude of each of said m samples.

- 7. The method of Claim 1, wherein each of said m samples has a magnitude, and wherein said step of deriving a value from m of said n samples comprises: calculating a sum comprising said magnitude of each of said m samples; and dividing said sum by m.
- 8. The method of Claim 1, wherein each of said m samples has a magnitude, and wherein said step of deriving a value from m of said n samples comprises integrating said magnitude of each of said m samples.
- 9. The method of Claim 1, wherein said step of deriving a value from m of said n samples comprises calculating a difference between an absolute value of a magnitude of each of said m samples and an optimal value.
- 10. The method of Claim 9, wherein said step of deriving a value from m of said n samples further comprises calculating a sum of each of said differences.
- 11. The method of Claim 9, wherein said step of deriving a value from m of said n samples further comprises calculating an average of each of said differences.
 - 12. The method of Claim 9, wherein said step of deriving a value from m of

said n samples further comprises integrating each of said differences.

- 13. The method of Claim 1, wherein said step of deriving a value from m of said n samples comprises filtering said m samples.
- 14. The method of Claim 13, wherein a repeated pattern of data is encoded in said at least a portion of a track in a 2T data pattern, wherein in delay operation notation a filter used in said step of filtering is given by the function $1 D^2 + D^4 D^6 \dots \pm D^{2n}$.
- 15. The method of Claim 13, wherein a repeated pattern of data is encoded in said at least a portion of a track in a 3T data pattern, wherein in delay operator notation said filter is given by the function $1 + D D^3 D^4 + D^6 + D^7 \dots [-/+ D^{n-1} -/+ D^n]$.
 - 16. The method of Claim 1, wherein m is equal to n.
- 17. The method of Claim 2, further comprising providing said signal to a controller.
 - 18. The method of Claim 1, wherein n is greater than m.
 - 19. The method of Claim 1, wherein n is greater than 1.

20. The method of Claim 1, wherein said m samples are significant samples.

21. A method for detecting flaws in a disk drive, comprising:

magnetizing each bit cell included in a plurality of bit cells on a disk in said disk drive in at least one of two directions;

reading from n of said plurality of bit cells;

sampling a signal derived from said n bit cells during said step of reading to obtain at least n samples;

deriving a value from m of said at least n samples; and comparing said derived value to a threshold value.

22. The method of Claim 21, further comprising:

generating a signal in response to a determination during said step of comparing that said derived value is unacceptable.

23. The method of Claim 21, further comprising:

generating a signal in response to a determination during said step of comparing that said derived value is less than said threshold value.

24. The method of Claim 21, further comprising:

generating a signal in response to a determination during said step of comparing that said derived value is not greater than said threshold value.

25. The method of Claim 21, wherein said step of deriving a value from m of

said at least n samples comprises calculating a sum comprising an absolute value of each of said m samples.

26. The method of Claim 21, wherein said step of deriving a value from m of said at least n samples comprises:

calculating a sum comprising an absolute value of each of said m samples; dividing said sum by m to obtain an average value of said m samples.

27. The method of Claim 21, wherein said step of deriving a value from m of said at least n samples comprises:

calculating a difference between each of said m samples and an optimal value to obtain m differences.

- 28. The method of Claim 27, wherein said step of deriving a value from m of said at least n samples further comprises calculating a sum of each of said m differences.
- 29. The method of Claim 27, wherein said step of deriving a value from m of said at least n samples further comprises calculating an average of each of said m differences.
- 30. The method of Claim 27, wherein said step of deriving a value from m of said at least n samples further comprises integrating each of said m differences.

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- 31. The method of Claim 21, wherein said step of deriving a value from m of said at least n samples cells comprises filtering said n samples.
- 32. The method of Claim 21, wherein said step of deriving a value from m of said at least n samples comprises integrating an absolute value of each of said m samples.
- 33. The method of Claim 21, wherein said step of magnetizing in at least one of two directions each bit cell included in a plurality of bit cells on said disk comprises creating a change in magnetization on every i^{th} bit cell, and wherein said step of deriving a value from m of said at least n samples comprises filtering said m samples with a filter given by $1 D^2 + D^4 D^6 \dots \pm D^{2n}$.
- 34. The method of Claim 21, wherein said step of magnetizing in at least one of two directions each bit cell included in a plurality of bit cells on said disk comprises: magnetizing a first bit cell in a first direction; magnetizing a second bit cell in said first direction; magnetizing a third bit cell in a second direction; and magnetizing a fourth bit cell in said second direction.
- 35. The method of Claim 34, wherein said step of reading from said at least n bit cells comprises reading from said first, second, third and fourth bit cells, wherein said step of sampling a signal derived from said at least n bit cells during said step of reading comprises sampling a signal derived from said first, second, third and fourth bit cells, and

wherein said m samples comprise those samples derived from magnetic transitions between said first and second and between said third and fourth bit cells.

- 36. The method of Claim 21, wherein said step of magnetizing each bit cell included in a plurality of bit cells on said disk comprises creating an iT pattern of encoded data.
- 37. The method of Claim 21, further comprising generating a flag if said comparison of said derived value to said threshold value indicates that said derived value is unacceptable.

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38. A hard disk drive, comprising:

a base;

a disk comprising a plurality of data tracks arranged concentrically about a spindle; a transducer head for reading and writing information to said data tracks, wherein said transducer head is moveable in a radial direction with respect to said disk to address a selected one of said plurality of data tracks;

a voice coil motor, interconnected to said transducer head, for moving said transducer head with respect to said data tracks;

a controller, interconnected to said voice coil motor, for controlling a position of said transducer head with respect to said data tracks; and

a channel, interconnected to said transducer head, wherein a signal derived from information encoded in n bit cells in a one of said data tracks is read by said transducer head and is transmitted to said channel, wherein in a flaw detection mode said information encoded in said data tracks is encoded in a known pattern, wherein in said flaw detection mode said signal is sampled at least m times, wherein m samples are used to derive a first value, and wherein said first value is compared to a threshold value.

- 39. The hard disk drive of Claim 38, wherein said channel generates a signal to indicate a detected flaw if said first value is less than said threshold value, and wherein said signal is passed to said controller.
- 40. The hard disk drive of Claim 38, further comprising a filter, wherein said filter performs, in delay operator notation, a function given by $1 D^2 + D^4 D^6 \dots \pm D^{2n}$.

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- 41. The hard disk drive of Claim 38, further comprising a filter, wherein said filter performs, in delay operator notation, a function given by $1 + D D^3 D^4 + D^6 + D^7 [-/+D^{n-1} -/+D^n]$.
 - 42. The hard disk drive of Claim 38, further comprising:
 a shift register, wherein at least said m samples can be stored;
 a summing block, wherein said m samples can be added to produce a sum; and
 a comparator, wherein said sum can be compared to said threshold value.